Title (en)
GAS TURBINE CONTROL DEVICE

Title (de)
GASTURBINENSTEUERUNGSVORRICHTUNG

Title (fr)
DISPOSITIF DE COMMANDE DE TURBINE A GAZ

Publication
EP 1895126 A1 20080305 (EN)

Application
EP 06730470 A 20060329

Priority
• JP 2006306522 W 20060329
• JP 2005183219 A 20050623

Abstract (en)
An object of the present invention is to provide a gas turbine control device which is capable of performing correction on the basis of a fuel composition of fuel gas to be supplied to a gas turbine, and is capable of changing an amount of correction in response to variation with time of the gas turbine. To attain this, a frequency analyzing unit 25 performs a frequency analysis of combustion oscillation of a combustor and splits a result of the analysis into respective frequency bands. Then, a state grasping unit 22 checks an operating state of the gas turbine on the basis of the result of the analysis of the combustion oscillation and process value of the gas turbine, and corrects the checked operating state on the basis of a fuel composition or a heat capacity of fuel gas measured by a fuel characteristic measuring unit 200. A countermeasure determining unit 23 conducts a countermeasure for controlling an operating action of the gas turbine on the basis of the operating state thus checked.

IPC 8 full level
F02C 9/28 (2006.01); **F02C 9/18** (2006.01); **F02C 9/40** (2006.01)

CPC (source: EP US)
F02C 3/22 (2013.01 - EP US); **F02C 9/00** (2013.01 - EP US); **F02C 9/28** (2013.01 - EP US); F05D 2270/083 (2013.01 - EP US); F23R 2900/00013 (2013.01 - EP US)

Cited by
EP3101343A1; EP2261486A4; US8510014B2; WO2016193069A1

Designated contracting state (EPC)
CH DE FR GB IT LI

DOCDB simple family (publication)
EP 1895126 A1 20080305; **EP 1895126 A4 20130717**; **EP 1895126 B1 20140924**; CA 2608387 A1 20061228; CA 2608387 C 20120814; CN 101203668 A 20080618; CN 101203668 B 20101110; CN 101900034 A 20101201; CN 101900034 B 20120905; CN 101900035 A 20101201; CN 101900035 B 20120606; EP 2570630 A2 20130320; EP 2570630 A3 20180307; EP 2570630 B1 20201202; JP 2006183652 A 20060713; JP 4592513 B2 20101201; US 2009125207 A1 20090514; US 2011172893 A1 20110714; US 8396643 B2 20130312; US 8560205 B2 20131015; WO 2006137201 A1 20061228

DOCDB simple family (application)
EP 06730470 A 20060329; CA 2608387 A 20060329; CN 200680022033 A 20060329; CN 201010134193 A 20060329; CN 201010134209 A 20060329; EP 12196642 A 20060329; JP 2005183219 A 20050623; JP 2006306522 W 20060329; US 71549110 A 20100302; US 99391506 A 20060329